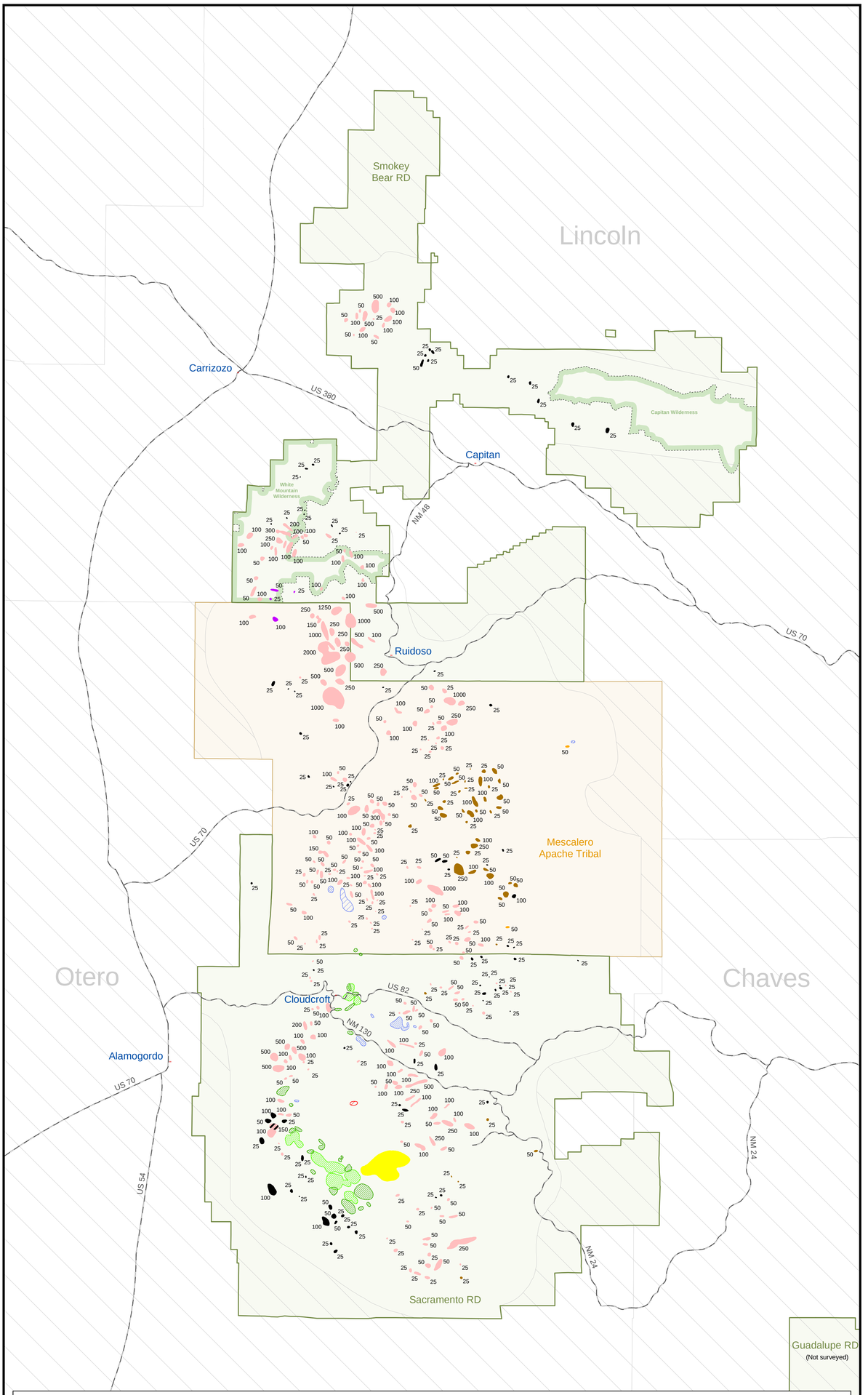


## Mortality

- Ips beetle in ponderosa pine
- Western pine beetle
- Piñon ips beetle
- Fir engraver beetle
- Spruce beetle

50 Estimated number of dead trees (for mortality agents only)

Areas with more than one agent are shown with multiple colors

## Defoliation

Light Heavy

- Aspen defoliation
- *Nepytia janetae* looper (June)
- *Nepytia janetae* looper (August)
- Western spruce budworm

Areas recovered from looper defoliation (previously defoliated during 2002 - 2005)

- Area not surveyed
- National Forest
- National Forest Wilderness
- Tribal lands
- Community location
- Major roads
- County boundaries

# 2006 Insect and Disease Aerial Survey Lincoln National Forest and Vicinity

1:250,000

0 5 10 15 Miles

Surveyed 6/7/2006 (supplemental survey for looper damage) and 8/2/2006 - 8/9/2006 by Richard Norris, Forest Health, New Mexico Zone Office, Southwestern Region.

The insect and disease activity depicted here is based on aerial detection surveys and should only be used as a general indicator of incidence. This map represents the mortality and defoliation that has occurred since the previous surveys in 2005. Depending upon the timing of survey, the entire extent of some insect and disease activity may not have been detected. In addition, most diseases cause gradual declines in tree health that are not typically detectable during aerial surveys. Intensity of damage is variable, thus not all trees within a mapped area are dead or defoliated. Caution should be used in interpreting these results due to the subjective nature of aerial sketch mapping and the scale of mapping. Areas of particular concern should be ground-checked for precise determination of location and causal agent.

Map produced by
Forest Health Staff
New Mexico Zone
11/17/2006

UTM Zone 13, North American Datum 1983